

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 January 2006 (26.01.2006)

PCT

(10) International Publication Number
WO 2006/008648 A1

(51) International Patent Classification⁷: **B60H 1/26**

(21) International Application Number:
PCT/IB2005/002216

(22) International Filing Date: 8 July 2005 (08.07.2005)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
BO2004A000436 13 July 2004 (13.07.2004) IT

(71) Applicant (for all designated States except US): SPAL
AUTOMOTIVE S.R.L. [IT/IT]; Via per Carpi, 26/B,
I-42015 Correggio (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SPAGGIARI,
Alessandro [IT/IT]; Via Leonardo Da Vinci, 8, I-42015
Correggio (IT).

(74) Agent: BIANCIARDI, Ezio; Bugnion S.p.A., Via Goito,
18, I-40126 Bologna (IT).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW.

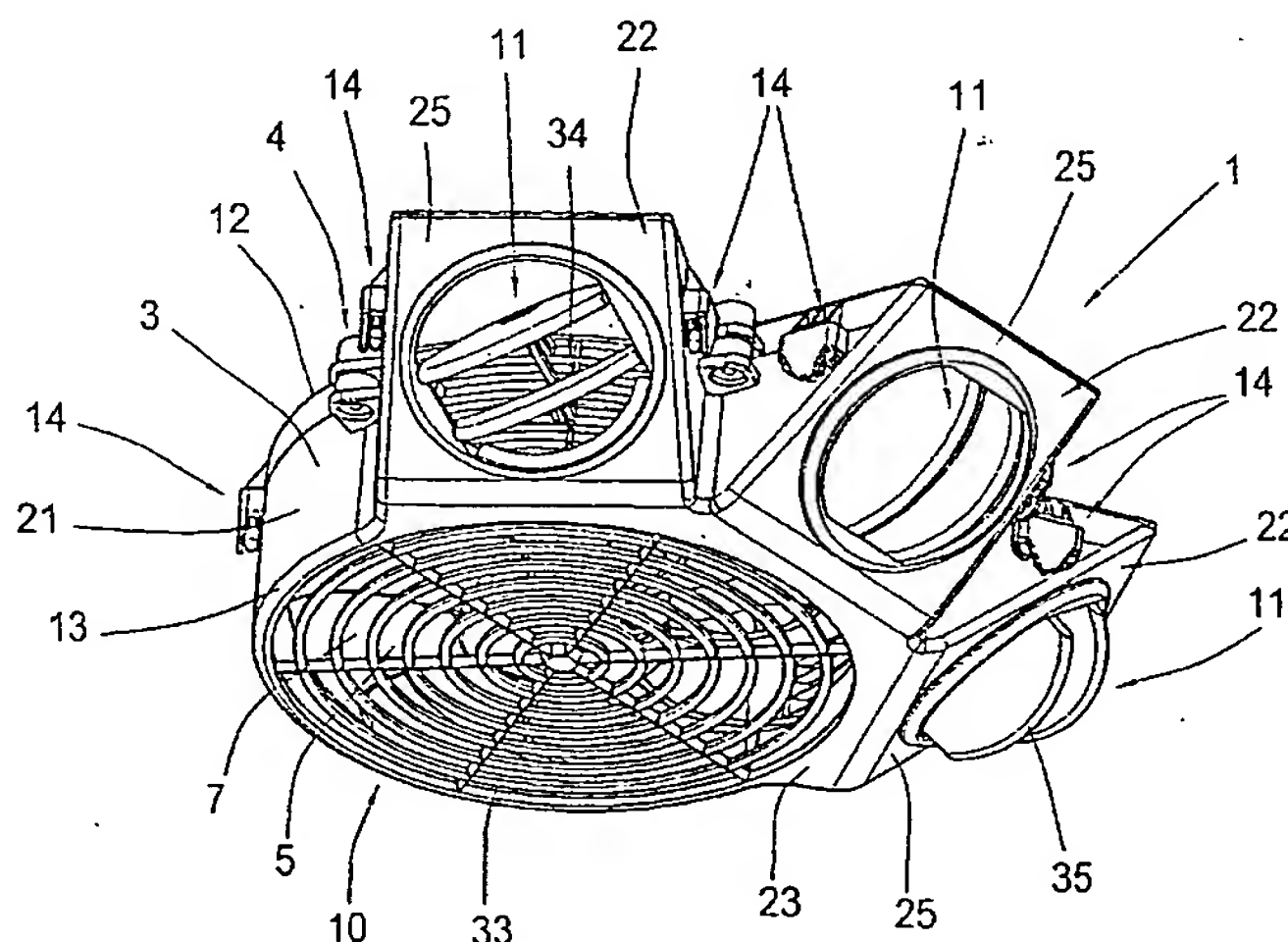
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: A VENTILATING DEVICE FOR MOTOR VEHICLES



(57) Abstract: Described is a motor vehicle ventilating device equipped with a housing (3), fastening elements (4) for attaching the housing (3) to the roof of the cabin of a motor vehicle (2) and a fan (5) positioned in the housing (3); the housing (3) defines a closed chamber (9) equipped with an air inlet opening (10) and at least one air outlet opening (11) for delivering to the vehicle cabin through the outlet opening (11) the air that is drawn into the housing (3) by the fan (5) through the inlet opening (10); the housing (3) is defined by two half-shells (12, 13) joined to each other in airtight manner, the first half-shell (12) being designed to be attached to the cabin roof and being equipped with a seat (18) for mounting the motor (6) of the fan (5) impeller (7), and the second half-shell (13) having the air inlet and outlet openings (10, 11) made in it; in an alternative embodiment, the motor (6) of the fan (5) impeller (7) is made in the second half-shell (13); the fan is of the axialflow type and the air outlet opening or openings (11) are positioned at the sides of the impeller (7) in respective radial directions of the impeller (7) itself.